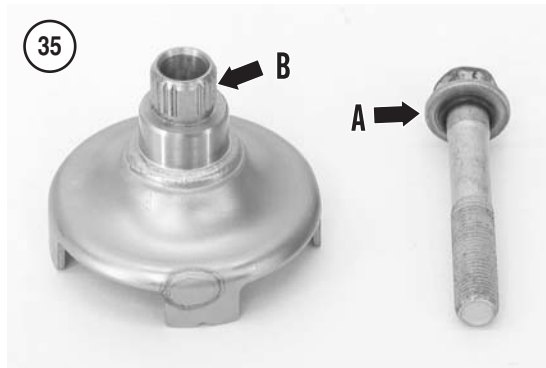
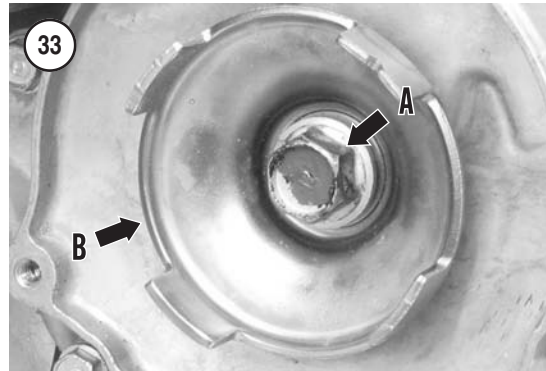


DRIVEN PULLEY

Removal/Installation

1. Remove the recoil starter assembly as described in this chapter.
2. Loosen and remove the driven pulley bolt (A, **Figure 33**). To prevent pulley rotation, insert a screwdriver or other tool between the flanges as shown in **Figure 34**.
3. Remove the driven pulley (B, **Figure 33**).
4. Inspect the driven pulley for cracks or other damage. Replace it if necessary.
5. Inspect the O-ring (A, **Figure 35**) on the bolt and replace it if it is damaged.
6. Install the driven pulley by reversing the preceding removal steps while noting the following:
 - a. Apply engine oil to the driven pulley shaft and the seal in the alternator cover.
 - b. Align the master spline on the end of the driven pulley (B, **Figure 35**) with the corresponding spline in the flywheel, then install the driven pulley.
 - c. Lubricate the O-ring with engine oil and install it onto the driven pulley bolt.
 - d. Secure the driven pulley with the same tool used during removal.
 - e. Apply engine oil to the bolt threads and seating surface, then install the driven pulley bolt and tighten it to 108 N•m (80 ft.-lb.).



ALTERNATOR COVER

The stator coil assembly and ignition pulse generator are mounted onto the alternator cover.

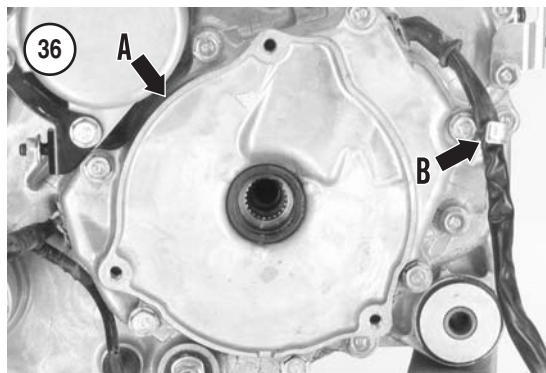
Removal/Installation

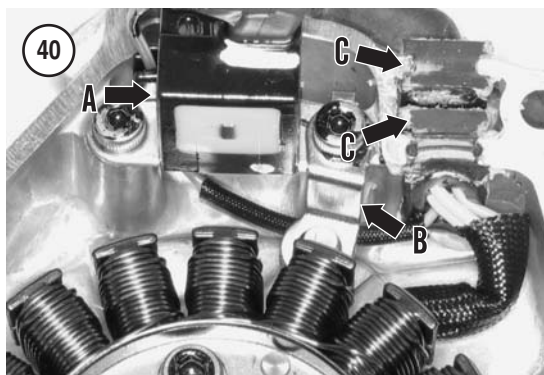
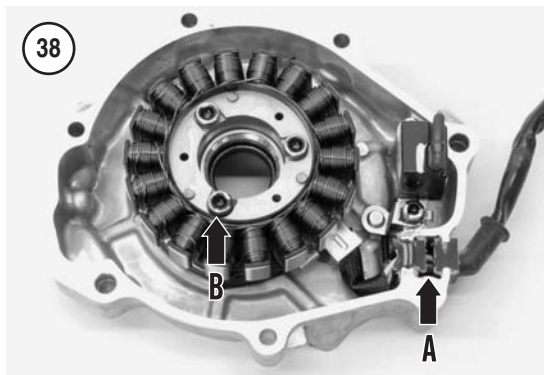
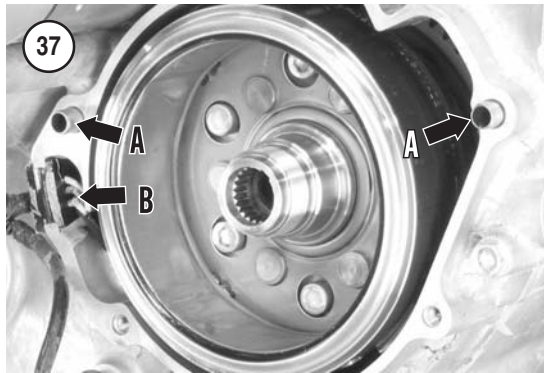
1. Remove the engine as described in this chapter.

NOTE

The starter gears may fall out of the rear crankcase cover when the alternator cover is removed in Step 2.

2. Remove the bolts and the alternator cover (A, **Figure 36**).
3. Remove the gasket and, if necessary, the dowel pins (A, **Figure 37**).



**NOTE**

The alternator cover will be pulled with considerable magnetic force toward the engine during installation. Make sure no wires or other objects can be trapped while installing the cover.

4. Install the alternator cover by reversing the preceding removal steps while noting the following:
 - a. Apply Yamabond No. 4 (or an equivalent) onto the grommets in the crankcase cover (B, **Figure 37**) and in the alternator cover (A, **Figure 38**).
 - b. Install and tighten the alternator cover mounting bolts securely. Note the position of the wire clamp (B, **Figure 36**).

5

Alternator Cover Oil Seal Inspection/Replacement

1. Inspect the alternator cover oil seal (**Figure 39**) for oil leaks, wear or damage.
2. Replace the alternator cover oil seal as follows:
 - a. Pry the oil seal out of the cover with a wide-blade screwdriver. Pad the bottom of the screwdriver to prevent it from damaging the alternator cover.
 - b. Pack the lips of the new oil seal with grease.
 - c. Press in the oil seal with its flat side (**Figure 39**) facing out.

Disassembly/Reassembly

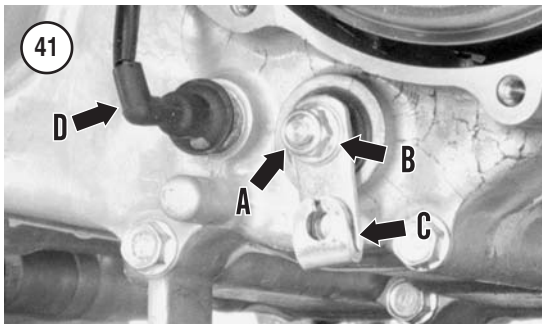
Remove the stator coil, ignition pulse generator or neutral/reverse switch assembly as follows:

1. Disconnect the connector from the top of the ignition pulse generator (A, **Figure 40**).
2. Remove the ignition pulse generator (A, **Figure 40**) and wire clamp (B) mounting bolts. Remove the ignition pulse generator.
3. Remove the stator mounting bolts (B, **Figure 38**), then remove the stator assembly.

NOTE

There are two replacement stators available (ND and Mitsuba) for 2003 models. Make sure the outside diameter of the replacement matches the original.

4. Install by reversing the preceding removal steps while noting the following:
 - a. Tighten the stator mounting bolts (B, **Figure 38**) to 10 N•m (88 in.-lb.).



- b. Remove all threadlock residue from the ignition pulse generator mounting bolt threads.
- c. Apply a medium strength threadlock onto the ignition pulse generator mounting bolts. Install and tighten the bolts to 6 N•m (53 in.-lb.).
- d. Make sure the ignition pulse generator wire is routed under the wire clamp (B, **Figure 40**) and ignition pulse generator.
- e. Apply Yamabond No. 4 (or an equivalent) onto the grommets (C, **Figure 40**) and make sure they are properly seated in the notches in the alternator cover.

REAR CRANKCASE COVER

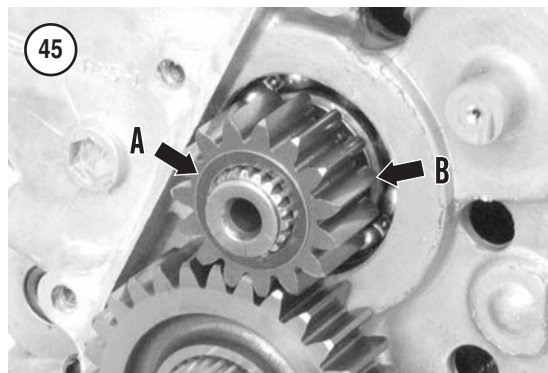
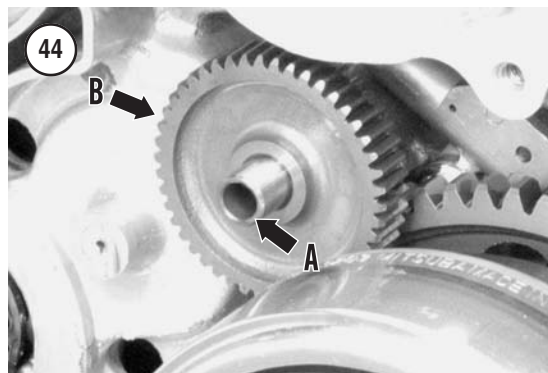
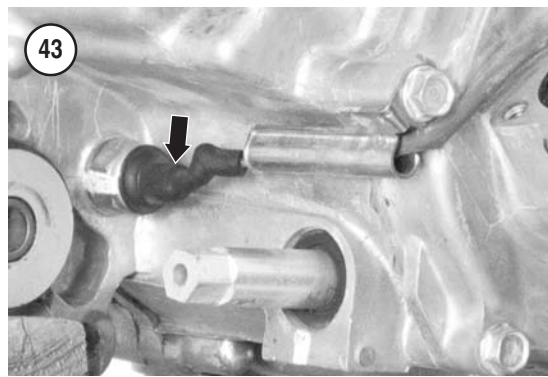
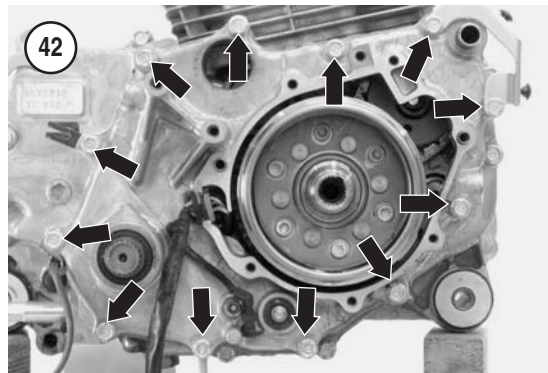
The rear crankcase cover houses the following components:

1. Gearshift spindle and gearshift arm A.
2. Final drive shaft seal.
3. Reverse spindle seal.
4. Neutral/reverse switch.
5. Vehicle speed sensor.

Removal/Installation

The rear crankcase cover can be removed with the flywheel installed on the engine.

1. Remove the alternator cover as described in this chapter.
2. Remove the starter motor (Chapter Nine).
3. Remove the speed sensor (Chapter Nine).
4. Remove the retaining nut (A, **Figure 41**), washer (B) and reverse selector arm (C).
5. Disconnect the neutral/reverse switch wire connector (D, **Figure 41**).
6. Remove the rear cover bolts (**Figure 42**).
7. Disconnect the thermosensor wire (**Figure 43**).
8. Remove the rear crankcase cover.



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